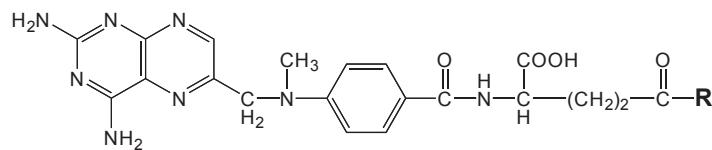
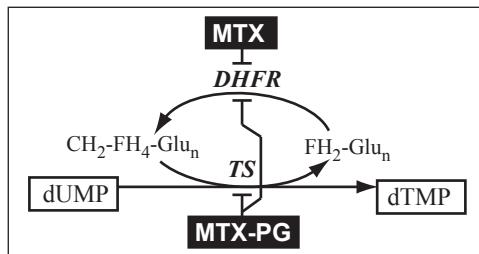
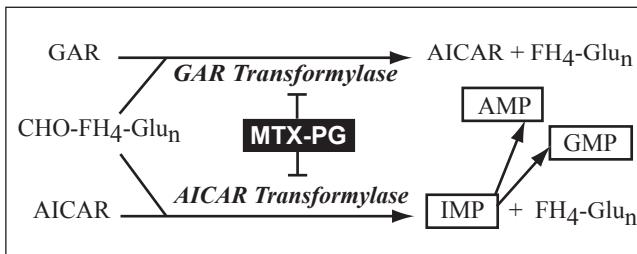


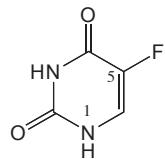
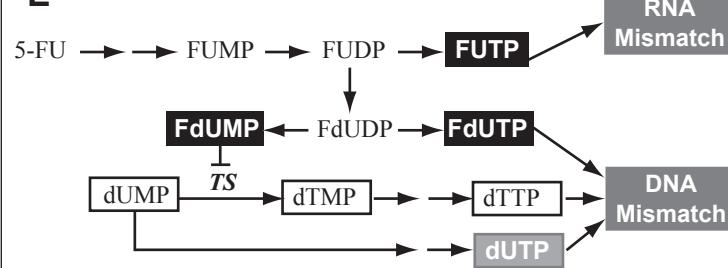
Pommier & Diasio, Fig. 1

**A**

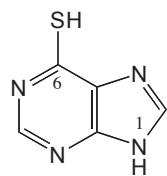
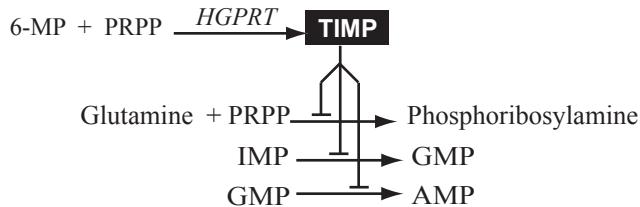
Methotrexate (MTX): R = OH

Methotrexate Polyglutamate (MTX-PG): R =  $\left[ \begin{array}{c} \text{COOH} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{C}(=\text{O})-(\text{CH}_2)_2-\text{C}(=\text{O})-\text{R} \end{array} \right]_n$ **B** Inhibition of Thymidylate Synthesis:**C** Inhibition of de Novo Purine Synthesis:**D**

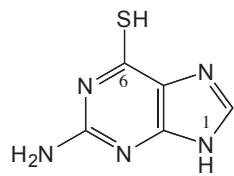
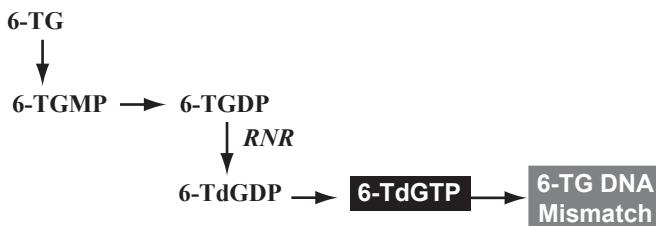
5-Fluorouracil (5-FU)

**E****F**

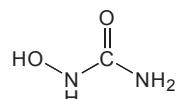
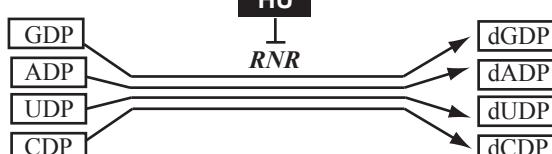
6-Mercaptopurine (6-MP)

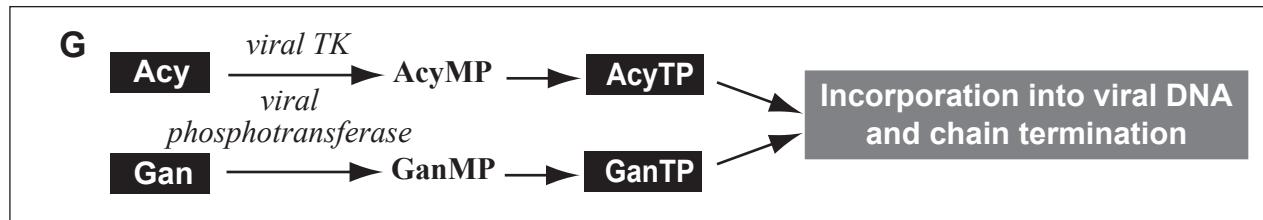
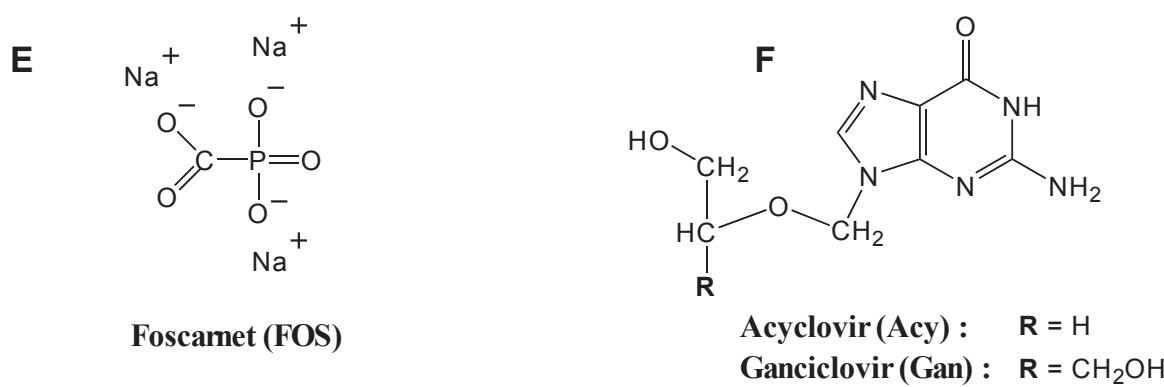
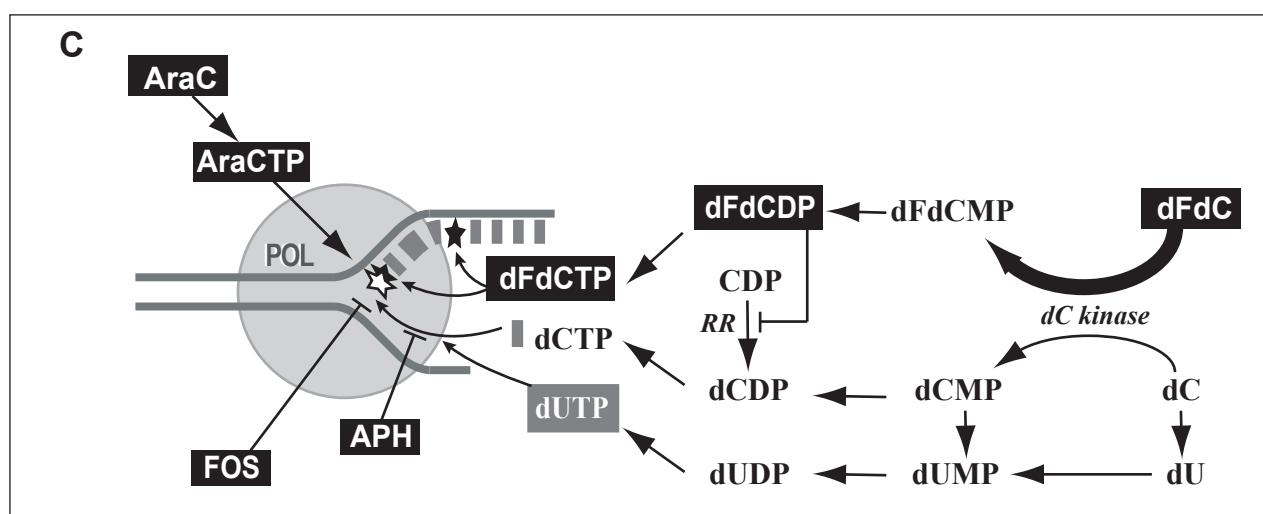
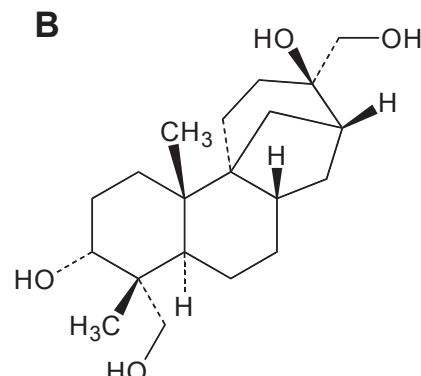
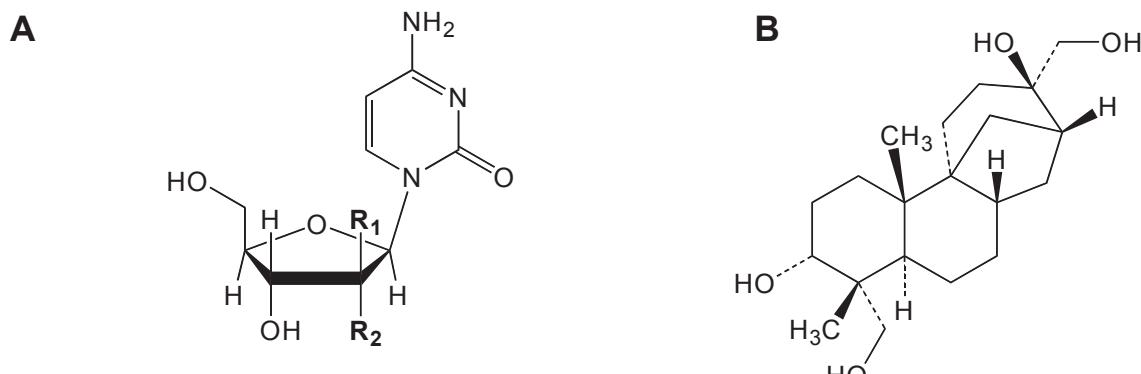
**G****H**

6-Thioguanine (6-TG)

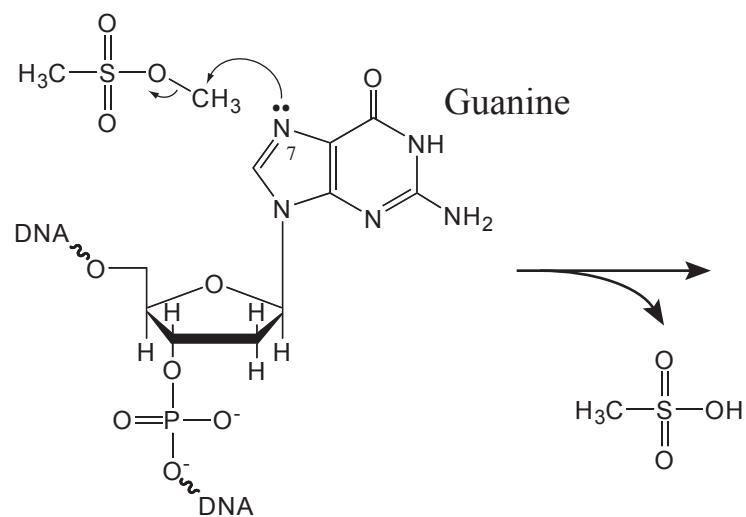
**I****J**

Hydroxyurea (HU)

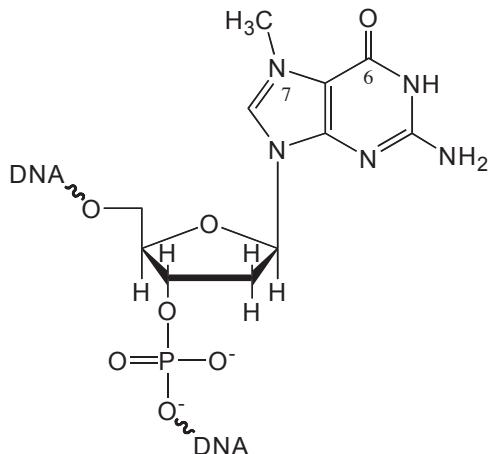
**K**



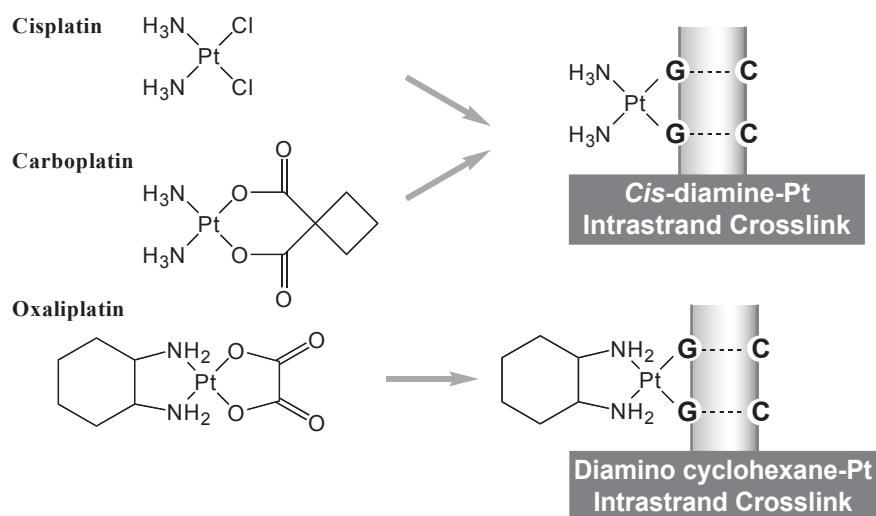
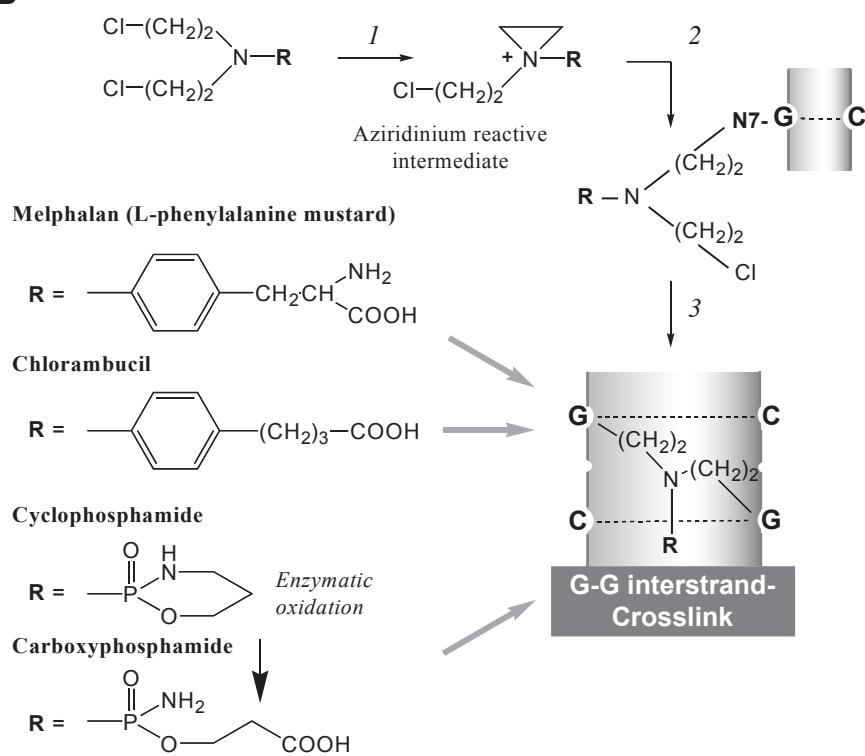
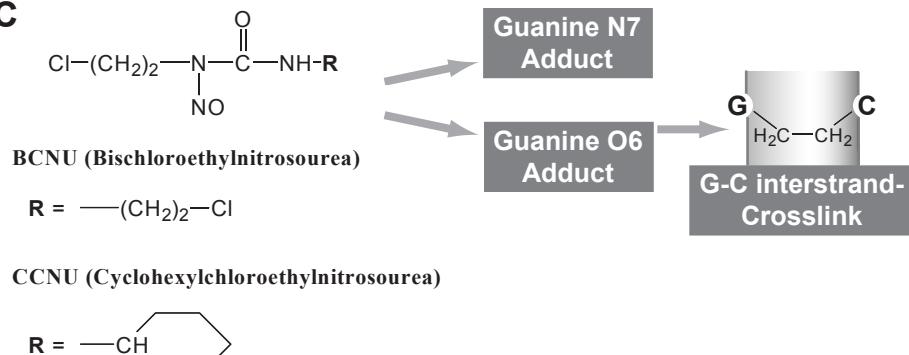
## Methylmethanesulfonate (MMS)

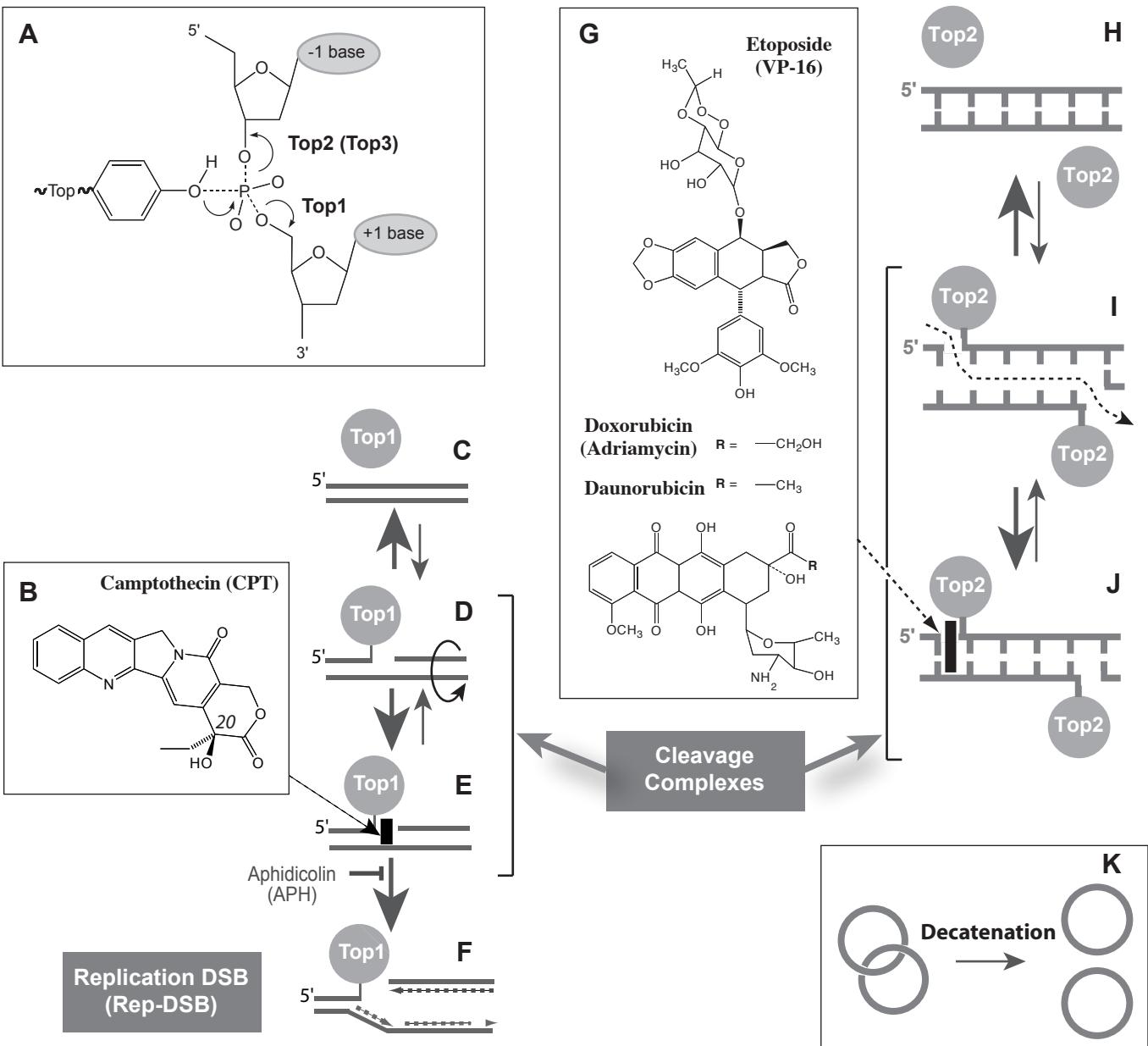


## N7-Methylated Guanine

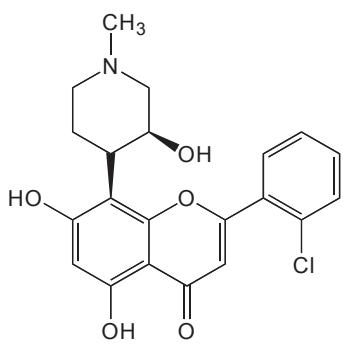


Pommier and Diasio, Fig. 4

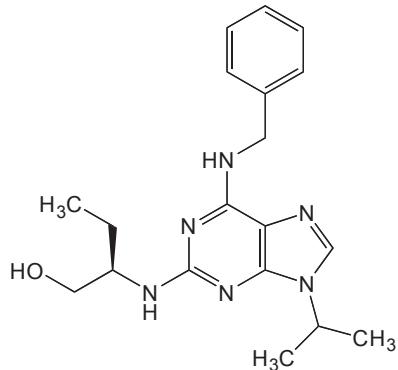
**A****B****C**



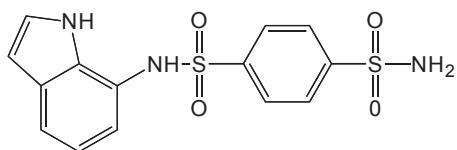
Pommier and Dialisio, Fig. 6



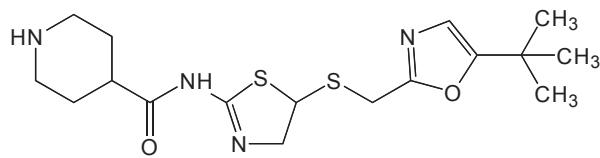
**Flavopiridol**  
(Aventis)



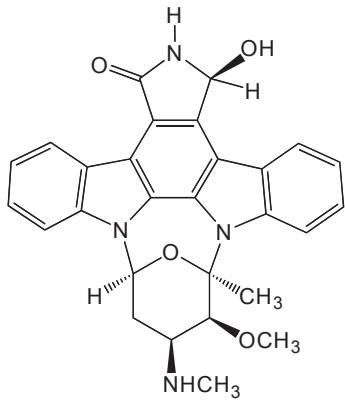
**(R)-Roscovitin (Selecid = CY202)**  
(Cyclacel)



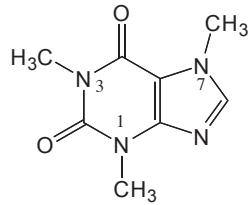
**Indisulam (E7070)**  
(EISAI)



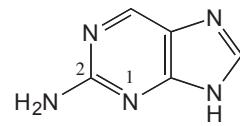
**BMS-387032**  
(Bristol-Myers Squibb)



**7-hydroxystaurosporine (UCN-01)**  
(Kyowa Hakko Kogyo)



**Caffeine**



**2-Aminopurine**

Pommier and D'Alasio, Fig. 7